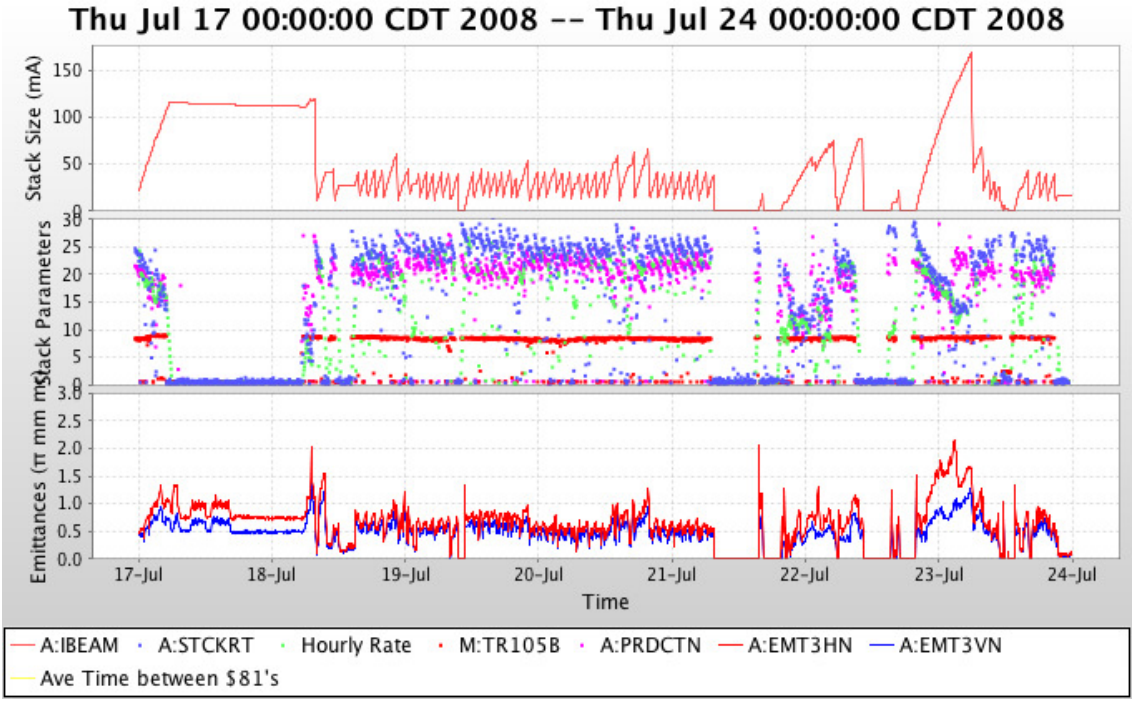
2008-07-24 Pbar Department Meeting

Thursday, July 24, 2008
9:58 AM



Sitting on big store
Accesses Monday (http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=318&load=) and Tuesday

- DRF1 is up to max now.
- Shunt work - appears to be working
- Tank motor controls
  - Mv305 - had limit switch broken
  - mh201U was sticking. Couldn't get it properly aligned. Ran fine from the box. Works, but not smooth movement.
  - Mv106d appeared to work.
- Rad survey
  - 10 is a lot quieter than before shutdown.
  - D-pipe next to accum inj septum is now hot. May want to bump in that region.
- Two small drippers
- Some warm quads. - uniform lack of flow in magnets.
  - Thermal images - http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=323&load=
- Equalizers
  - Core hor. Are in. Didn't make it worse? Not clear yet that it has improved anything.
    - Bands 2 and 3 were noticeably better
    - Band 1 was a wash.
    - Emittances look the same.
  - Debuncher notch filter
    - Val claims it is 3% worse.
    - Measured notch filter response without old notch
    - we did what we wanted. When inserted new equalizer, got reflections from somewhere. 2.6nsec delay in cable…to fix the problem we need an access. Will take a long time, so

wait until October shutdown.
        - If we increase gain in long leg of notch filter, would improve cooling.
        - Will make remote control attenuation in long leg. Increase by 24%. Should be significant improvement. Motor to control attenuator…
    - 4-8GHz TWT repair
        - Repair was successful.
        - Some cable ultimately had to be removed since it was too long even with the trombone set to zero.
        - Wes and Pete turned down the helix voltage on both TWTs. The helix voltage changes the length of the TWT.
        - So when phased the system, phased the second leg to the first leg.
        - Overall delay was 42psec too long, which was blowing the beam up.
- A:LQ trip (http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar08&action=view&page=325&load=)
    - DC overcurrent trip, but that is shorted out.
    - Thought there was a problem with the interlock box.
    - Ran for a while, had another tirp.
    - In series with DC Overcurrent is also an AC overcurrent.
    - The last trip, the current went to zero, but the PS stayed on.
    - Opened the PS, breaker tripped. One cable was very movable since the cable sheered.
- Debuncher beam valve controls.
    - Bv610
- Moved target to middle disk.

- ISEP trip
    - http://deb-nmr-scope.fnal.gov:8001/
    - Once the scope is triggered and you have copied the trace image, go to the "data" tab and in the Talk/Listen area enter the command
    - **fpanel:press singleseq**
    - and hit the Send button. Go

      Go back to the home page, wait for the screen to refresh and verify that the display is cleared and the scope is waiting for the next trigger.
- 4 day shutdown
    - Big job is to support Japanese target station experiment.
    - Clean up work list items.